

CLAIMS

1. A rear transition module of a network interface,
the rear transition module comprising:
 - a transmit magnetics;
 - a connector;
 - a first resistor having a first terminal coupled
to the transmit magnetics and a second terminal coupled
to the connector; and
 - a second resistor having a first terminal coupled
to the transmit magnetics and a second terminal coupled
to the connector.
2. The rear transition module of Claim 1, further
comprising a receive magnetics coupled to the connector by a
pair of differential receive lines.
3. The rear transition module of Claim 1, wherein the
first resistor and the second resistor are series resistors
on a pair of differential transmit lines.
4. The rear transition module of Claim 1, wherein the
connector is configured to connect to a backplane.
5. The rear transition module of Claim 4, wherein the
back plane is configured to connect to a front module.
6. The rear transition module of Claim 5, wherein the
front module comprises:
 - a network controller; and
 - a transceiver coupled to the network controller.

7. The rear transition module of Claim 1, wherein the first resistor has a resistance value in the range of 22 to 47 ohms.

8. The rear transition module of Claim 1, wherein the connector is coupled to the first resistor by a signal line having a length less than half an inch.

9. The rear transition module of Claim 1, further comprising:

a second transmit magnetics;

a third resistor having a first terminal coupled to the second transmit magnetics and a second terminal coupled to the connector; and

a fourth resistor having a first terminal coupled to the second transmit magnetics and a second terminal coupled to the connector.

10. The rear transition module of Claim 1, further comprising a network connector coupled to the transmit magnetics.

11. The rear transition module of Claim 1, wherein no active components for transmitting or receiving data are placed on the rear transition module.

12. A network interface system comprising:

a front module having

a network controller;

a transceiver coupled to the network controller

a front module connector coupled to the transceiver;

a rear transition module having

a rear transition connector;

a transmit magnetics;

a first resistor having a first terminal coupled to the transmit magnetics and a second terminal coupled to the rear transition connector; and

a second resistor having a first terminal coupled to the transmit magnetics and a second terminal coupled to the rear transition connector; and

a backplane having:

a front backplane connector configured to couple with the front module connector; and

a rear backplane connector configured to couple with the rear transition connector.

13. The network interface system of Claim 12, wherein the rear transition module further comprises a receive magnetics coupled to the rear transition connector by a pair of differential receive lines.

14. The network interface system of Claim 12, wherein the first resistor and the second resistor are series resistors on a pair of differential transmit lines.

15. The network interface system of Claim 12, wherein the first resistor has a resistance value in the range of 22 to 47 ohms.

16. The network interface system of Claim 12, wherein the rear transition connector is coupled to the first resistor by a signal line having a length less than half an inch.

17. The network interface system of Claim 12, wherein the rear transition module further comprises:

a second transmit magnetics;

a third resistor having a first terminal coupled to the second transmit magnetics and a second terminal coupled to the rear transition connector; and

a fourth resistor having a first terminal coupled to the second transmit magnetics and a second terminal coupled to the rear transition connector.

18. The network interface system of Claim 17, wherein the front module further comprises:

a second network controller; and

a transceiver coupled to the network controller and the front module connector.

19. The network interface system of Claim 1, wherein no active components for transmitting or receiving data are placed on the rear transition module.